

### United States Patent and Trademark Office



UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER OF PATENTS AND TRADEMARKS
Washington, D.C. 20231
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/635,798	08/11/2000	Andre van Doorn	142-327P	9236
2292	7590 04/04/2003			
BIRCH STI	EWART KOLASCH &	EXAMINER		
PO BOX 747 FALLS CHU	rch, VA 22040-0747		NGUYEN, THINH H	
			ART UNIT	PAPER NUMBER
			2861	/
			DATE MAILED: 04/04/2003	<b>;</b>

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	pplicant(s)				
. Office Action Summary		09/635,798	VAN DOORN ET AL.				
		Examiner	Art Unit				
	-	Thinh H Nguyen	2861				
	The MAILING DATE of this communication appears on the cover sheet with the correspondence address						
Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).  - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status 1)⊠	Responsive to communication(s) filed on <u>2/2</u>	7/02					
2a)□	·	his action is non-final.					
2a) □ 3) □	,—		prosecution as to the merits is				
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims							
4) Claim(s) 1-6 is/are pending in the application.							
4a) Of the above claim(s) is/are withdrawn from consideration.							
·	5) Claim(s) is/are allowed.						
,	6)⊠ Claim(s) <u>1-6</u> is/are rejected.						
	7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or election requirement.  Application Papers							
9) The specification is objected to by the Examiner.							
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.							
If approved, corrected drawings are required in reply to this Office action.							
12)☐ The oath or declaration is objected to by the Examiner.							
Priority under 35 U.S.C. §§ 119 and 120							
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
a) ☐ All b) ☐ Some * c) ☐ None of:							
	1. Certified copies of the priority documents have been received.						
	2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.							
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).							
a) The translation of the foreign language provisional application has been received.  15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.							
Attachment(s)							
1) Notic	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Inform	nary (PTO-413) Paper No(s) nal Patent Application (PTO-152)				

Art Unit: 2861

# **DETAILED ACTION**

## Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. § 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1-6 are rejected under 35 U.S.C. § 102(b) as being anticipated by Hackleman. (U.S.5,640,183)

Hackleman (see col.3, line 35 – col. 4) discloses the instant claimed printing method and device containing at least one printhead 14 provided with at least one row of nozzles 16 having nozzle spaced at 1/300-inch. The pixel row being formed at 300 dpi which resolution being equal to the resolution of the pixel column (nozzle pitch). Means for initiating a first printing stage in which a strip of pixel row(s) 2 through +1 (col.4, line 15), said printhead being displaced in a direction parallel to the pixels columns, means initiating a second printing stage in which a strip of pixel row(s) 3 through +2 (see carriage and paper feed controlling of Hickman reference of which incorporated herein by Hackleman, col.2) wherein said printhead being displaced over a distance such that the same is substantially equal to the width of one pixel row.

Re claim 2, the limitation of the one extra nozzle is shown by the +/nozzle(s) (see fig.5).

Re claims 3, 4, the limitation is shown by nozzle rows being used to print a pixel in the first and second printing stage are from different sets of nozzles of the same printhead or different printheads 16 (fig.4; see also col.3, lines 64 - col.4, line 18).

Re claim 5, the limitation of substantially each pixel is printed with no more than one ink drop is shown in col3, lines 51-54.

#### Pertinent Prior art

- The prior art made of record and not relied upon is considered pertinent to 3. applicant's disclosure.
- U.S. Patent 4,963,882 to Hickman discloses print pixel being printed by one or more nozzles and the known relative movement of carriage and paper advance by the printer controller.

#### **Contact Information**

Any inquiry concerning this communication or earlier communications from 4. the examiner should be directed to Thinh Nguyen whose telephone number is (703) 308-7487.

Art Unit: 2861

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 308-0956.

4

Thinh Nguyen

March 29, 2003

Thinh Nguyen Primary Examiner Technology Center 2800